

## SEQUENCE LISTING

- (i) APPLICANT: McCarthy, Sean
- (ii) TITLE OF INVENTION: NOVEL CRSP-1 COMPOSITIONS AND THERAPEUTIC AND DIAGNOSTIC USES THEREFOR
- (iii) NUMBER OF SEQUENCES: 4
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: FOLEY, HOAG & ELIOT LLP
  - (B) STREET: One Post Office Square
  - (C) CITY: Boston
  - (D) STATE: MA
  - (E) COUNTRY: USA
  - (F) ZIP: 02109-2170
  - (v) COMPUTER READABLE FORM:
    - (A) MEDIUM TYPE: Floppy disk
    - (B) COMPUTER: IBM PC compatible
    - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
    - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER: US 08/842,898
  - (B) FILING DATE: 17-APR-1997
  - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
  - (A) NAME: Arnold, Beth E.
  - (B) REGISTRATION NUMBER: 35,430
  - (C) REFERENCE/DOCKET NUMBER: MAA-004.02
  - (ix) TELECOMMUNICATION INFORMATION:
    - (A) TELEPHONE: 617-832-1000
    - (B) TELEFAX: 617-832-7000
- (2) INFORMATION FOR SEQ ID NO:1:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1169 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (ix) FEATURE:
    - (A) NAME/KEY: CDS
    - (B) LOCATION: 38..1087
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GGCACGAGGG GGCGGCGCT GCGGGCGCAG AGCGGAG ATG CAG CGG CTT GGG GCC Met Gln Arg Leu Gly Ala 1 5								
ACC CTG CTG TGC CTG Thr Leu Leu Cys Leu 10								
CCC GCT CCG ACG GCG Pro Ala Pro Thr Ala 25								
AGC TAC CCG CAG GAG Ser Tyr Pro Gln Glu 40								
GAG GAA CTG ATG GAG Glu Glu Leu Met Glu 55								
GAG ATG GAG GCA GAA Glu Met Glu Ala Glu 75								
CTG GCA AAC TTA CCT Leu Ala Asn Leu Pro 90								
AAC GTT GGA AAT AAT Asn Val Gly Asn Asn 105								
ACC AAC AAC CAG ACT Thr Asn Asn Gln Thr 120								
TCT GTG GGA GAC GAA Ser Val Gly Asp Glu 135								
GAG GAC TGT GGG CCC Glu Asp Cys Gly Pro 155	Ser Met Tyr	TGC CAG TTT Cys Gln Phe 160	GCC AGC TTC CAG Ala Ser Phe Gln 165	TAC 535 Tyr				
ACC TGC CAG CCA TGC Thr Cys Gln Pro Cys 170								
GAG TGC TGT GGA GAC Glu Cys Cys Gly Asp 185	CAG CTG TGT Gln Leu Cys 190	GTC TGG GGT Val Trp Gly	CAC TGC ACC AAA His Cys Thr Lys 195	ATG 631 Met				
GCC ACC AGG GGC AGC Ala Thr Arg Gly Ser 200								
CAG CCG GGG CTG TGC Gln Pro Gly Leu Cys 215								

						GAG Glu										775
						ACC Thr										823
						AGT Ser										871
						AAG Lys 285										919
						CCC Pro										967
						GTG Val										1015
						GCG Ala										1063
	-					GAG Glu		TAG	ATCTO	GGA (	CCAG	GCTG'	rg go	gtag <i>i</i>	ATGTG	1117
CAATAGAAAT AGCTAATTTA TTTCCCCANG TGTGTGCTTT AAGCGTGGGC TG								1169								

## (2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 350 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Gln Arg Leu Gly Ala Thr Leu Leu Cys Leu Leu Leu Ala Ala 1 5 10 15

Val Pro Thr Ala Pro Ala Pro Ala Pro Thr Ala Thr Ser Ala Pro Val 20 25 30

Lys Pro Gly Pro Ala Leu Ser Tyr Pro Gln Glu Glu Ala Thr Leu Asn 35 40 45

Glu Met Phe Arg Glu Val Glu Glu Leu Met Glu Asp Thr Gln His Lys 50 55 60

Leu Arg Ser Ala Val Glu Glu Met Glu Ala Glu Glu Ala Ala Ala Lys 65 70 75 80

Ala Ser Ser Glu Val Asn Leu Ala Asn Leu Pro Pro Ser Tyr His Asn 90 Glu Thr Asn Thr Asp Thr Asn Val Gly Asn Asn Thr Ile His Val His Arg Glu Ile His Lys Ile Thr Asn Asn Gln Thr Gly Gln Met Val Phe Ser Glu Thr Val Ile Thr Ser Val Gly Asp Glu Glu Gly Arg Arg Ser 135 His Glu Cys Ile Ile Asp Glu Asp Cys Gly Pro Ser Met Tyr Cys Gln Phe Ala Ser Phe Gln Tyr Thr Cys Gln Pro Cys Arg Gly Gln Arg Met Leu Cys Thr Arg Asp Ser Glu Cys Cys Gly Asp Gln Leu Cys Val Trp Gly His Cys Thr Lys Met Ala Thr Arg Gly Ser Asn Gly Thr Ile Cys 200 Asp Asn Gln Arg Asp Cys Gln Pro Gly Leu Cys Cys Ala Phe Gln Arg Gly Leu Leu Phe Pro Val Cys Thr Pro Leu Pro Val Glu Gly Glu Leu 235 Cys His Asp Pro Ala Ser Arg Leu Leu Asp Leu Ile Thr Trp Glu Leu Glu Pro Asp Gly Ala Leu Asp Arg Cys Pro Cys Ala Ser Gly Leu Leu Cys Gln Pro His Ser His Ser Leu Val Tyr Val Cys Lys Pro Thr Phe Val Gly Ser Arg Asp Gln Asp Gly Glu Ile Leu Leu Pro Arg Glu Val Pro Asp Glu Tyr Glu Val Gly Ser Phe Met Glu Glu Val Arg Gln Glu 315 310 305 Leu Glu Asp Leu Glu Arg Ser Leu Thr Glu Glu Met Ala Leu Arg Glu 325 330 Pro Ala Ala Ala Ala Ala Leu Leu Gly Arg Glu Glu Ile

345

350

## (2) INFORMATION FOR SEQ ID NO:3:

340

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1050 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

60	CCCCACGGCC	CGGCGGCGGT	CTGCTGCTGG	CCTGCTGTGC	TTGGGGCCAC	ATGCAGCGGC
120	TCTCAGCTAC	CCGGCCCGGC	CCAGTCAAGC	GACCTCGGCT	CTCCGACGGC	CCCGCGCCCG
180	GATGGAGGAC	TTGAGGAACT	TTCCGCGAGG	CAATGAGATG	AGGCCACCCT	CCGCAGGAGG
240	TGCTGCTAAA	CAGAAGAAGC	GAGATGGAGG	CGCGGTGGAA	AATTGCGCAG	ACGCAGCACA
300	GACCAACACA	ATCACAATGA	CCTCCCAGCT	GGCAAACTTA	AAGTGAACCT	GCATCATCAG
360	GATAACCAAC	AAATTCACAA	GTGCACCGAG	TACCATCCAT	TTGGAAATAA	GACACGAACG
420	AGACGAAGAA	CATCTGTGGG	ACAGTTATCA	CTTTTCAGAG	GACAAATGGT	AACCAGACTG
480	GTACTGCCAG	GGCCCAGCAT	GAGGACTGTG	CATCATCGAC	GCCACGAGTG	GGCAGAAGGA
540	CTGCACCCGG	AGAGGATGCT	TGCCGGGGCC	CTGCCAGCCA	TCCAGTACAC	TTTGCCAGCT
600	AATGGCCACC	ACTGCACCAA	GTCTGGGGTC	CCAGCTGTGT	GCTGTGGAGA	GACAGTGAGT
660	GCTGTGCTGT	GCCAGCCGGG	CAGAGGGACT	CTGTGACAAC	ATGGGACCAT	AGGGGCAGCA
720	GGGCGAGCTT	TGCCCGTGGA	TGCACACCCC	GTTCCCTGTG	GAGGCCTGCT	GCCTTCCAGA
780	GCCTGATGGA	GGGAGCTAGA	CTCATCACCT	GCTTCTGGAC	CCGCCAGCCG	TGCCATGACC
840	CCACAGCCTG	AGCCCCACAG	СТСТСТССС	TGCCAGTGGC	GATGCCCTTG	GCCTTGGACC
900	GATCCTGCTG	AAGATGGGGA	AGCCGTGACC	CTTCGTGGGG	GCAAGCCGAC	GTGTATGTGT
960	GCGCCAGGAG	TGGAGGAGGT	GGCAGCTTCA	GTATGAAGTT	TCCCCGATGA	CCCAGAGAGG
1020	TGCGGCTGCC	TGAGGGAGCC	GAGATGGCGC	CCTGACTGAA	TGGAGAGGAG	CTGGAGGACC
1050				GGAAGAGATT	TGCTGGGAAG	GCCGCTGCAC

## (2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 350 amino acids
  - (B) TYPE: amino acid(C) STRANDEDNESS:

  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Met Arg Arg Gly Glu Gly Pro Ala Pro Arg Arg Arg Trp Leu Leu Leu 10

Leu Ala Val Leu Ala Ala Leu Cys Cys Ala Ala Ala Gly Ser Gly Gly 25 . 30

Arg Arg Arg Ala Ala Ser Leu Gly Glu Met Leu Arg Glu Val Glu Ala Leu Met Glu Asp Thr Gln His Lys Leu Arg Asn Ala Val Gln Glu Met Glu Ala Glu Glu Gly Ala Lys Lys Leu Ser Glu Val Asn Phe Glu Asn Leu Pro Pro Thr Tyr His Asn Glu Ser Asn Thr Glu Thr Arg Ile Gly Asn Lys Thr Val Gln Thr His Gln Glu Ile Asp Lys Val Thr Asp 105 Asn Arg Thr Gly Ser Thr Ile Phe Ser Glu Thr Ile Ile Thr Ser Ile Lys Gly Gly Glu Asn Lys Arg Asn His Glu Cys Ile Ile Asp Glu Asp Cys Glu Thr Gly Lys Tyr Cys Gln Phe Ser Thr Phe Glu Tyr Lys Cys Gln Pro Cys Lys Thr Gln His Thr His Cys Ser Arg Asp Val Glu Cys Cys.Gly Asp Gln Leu Cys Val Trp Gly Glu Cys Arg Lys Ala Thr Ser Arg Gly Glu Asn Gly Thr Ile Cys Glu Asn Gln His Asp Cys Asn Pro Gly Thr Cys Cys Ala Phe Gln Lys Glu Leu Leu Phe Pro Val Cys Thr Pro Leu Pro Glu Glu Gly Glu Pro Cys His Asp Pro Ser Asn Arg Leu 235 Leu Asn Leu Ile Thr Trp Glu Leu Glu Pro Asp Gly Val Leu Glu Arg Cys Pro Cys Ala Ser Gly Leu Ile Cys Gln Pro Gln Ser Ser His Ser 265 Thr Thr Ser Val Cys Glu Leu Ser Ser Asn Glu Thr Arg Lys Asn Glu 285 280 Lys Glu Asp Pro Leu Asn Met Asp Glu Met Pro Phe Ile Ser Leu Ile 295 Pro Arg Asp Ile Leu Ser Asp Tyr Glu Glu Ser Ser Val Ile Gln Glu 310 315 Val Arg Lys Glu Leu Glu Ser Leu Glu Asp Gln Ala Gly Val Lys Ser 330 Glu His Asp Pro Ala His Asp Leu Phe Leu Gly Asp Glu Ile